

**METHOD AND APPARATUS FOR DETERMINING AT LEAST AN  
INDICATION OF RETURN LOSS OF AN ANTENNA**

**ABSTRACT OF THE DISCLOSURE**

A tone generator generates a test signal that a coupler injects into a cable towards an antenna. A receiver or other communication equipment, connected to the antenna via the cable, measures, across  
5 a frequency band, at least powers of a signal received at a base station from the antenna. The received signal includes a leakage signal and a reflected signal where the reflected signal is a reflected portion of the test signal and the leakage signal is a portion of the test signal leaking from the coupler away from the antenna. The communication  
10 equipment determines maximum and minimum powers of the received signal based on the measurements, and determines at least an indication of return loss of the antenna based on the determined maximum and minimum powers.